KUSTOM®

OWNER'S MANUAL

SIENNA™35

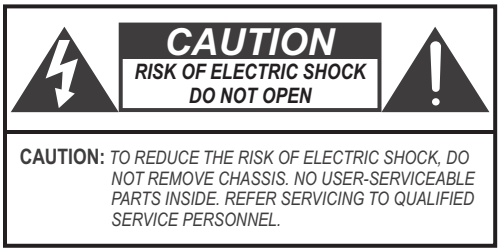
Congratulations on the purchase of your new Kustom amp! Your Sienna35 successfully draws on more than 30 years of amplifier design and manufacturing experience at Kustom. This amp was planned from the ground up by our engineers to offer top-notch tone and dependable performance. Inside this manual, you'll find useful information about the amp's features and some suggested settings to illustrate its tonal capabilities. We wish you many years of enjoyment with your Kustom amplifier.

ENGLISH

Danger
Exposure to extremely high noise levels may cause a permanent hearing loss. Individuals vary considerably to noise induced hearing loss but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a sufficient time. The U.S. Government's Occupational Safety and Health Administration (OSHA) has specified the following permissible noise level exposures:

DURATION PER DAY (HOURS)	8	6	4	3	2	1
SOUND LEVEL (dB)	90	93	95	97	100	103

According to OSHA, any exposure in the above permissible limits could result in some hearing loss. Ear plugs or protectors in the ear canal or over the ears must be worn when operating this amplification system in order to prevent a permanent hearing loss. If exposure in excess of the limits as put forth above, to insure against potentially harmful exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of inducing high sound pressure levels, such as this amplification system, be protected by hearing protectors while this unit is in operation.



AVIS: RISQUE DE CHOC ELECTRIQUE-NE PAS OUVRIR.

THIS SYMBOL IS INTENDED TO ALERT THE USER TO THE PRESENCE OF NON-INSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.

THIS SYMBOL IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE UNIT.

APPARATUS SHALL NOT BE EXPOSED TO DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.

IMPORTANT SAFETY INSTRUCTIONS

1. Read all safety and operating instructions before using this product.
2. All safety and operating instructions should be kept for future reference.
3. Read and understand all warnings listed on the operating instructions.
4 . Follow all operating instructions to operate this product.
5. This product should not be used near water, i.e. Bathtub, sink,swimming pool, wet basement, etc.
6. Only use dry cloth to clean this product.
7. Do not block any ventilation openings, It should not be placed flat against a wall or placed in a built-in enclosure that will impede the flow of cooling air.
8. Do not install this product near any heat sources ;such as,radiators, heat registers, stove or other apparatus (including heat producing amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the 0ther.A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord being walked on or pinched, particularly at Plugs, convenience receptacles and the point where they exit from the apparatus. Do not break the ground pin of the power supply cord.
11 . Only use attachments specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Care should be taken so that objects do not fall and liquids are not spilled into the unit through the ventilation ports or any other openings.
15. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way; such as, power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally or has been dropped.
16. WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

FRENCH

Danger
L'exposition a des niveaux eleves de bruit peut provoquer une perte permanente de l'audition, Chaque organisme humain reagit differemment quant a la perte de l'audition, mais quasiment tout le monde subit une diminution de l'acuite auditive lors d'une exposition suffisamment longue au bruit intense. Les autorites competentes en reglementation de bruit ont defini les expositions tolerees aux niveaux de bruits:

DURE EN HEURES PAR JOUR	8	6	4	3	2	1
INIVEAU SONORE CONTINU EN dB	90	93	95	97	100	103

Selon les autorites, toute exposition dans les limites citees ci-dessus, peuvent provoquer certaines pertes d'audition. Des bouchons ou protections dans l'appareil auditif ou sur l'oreille doivent etre portes lors de l'utilisation de ce systeme d'amplification afin de prevenir le risque de perte permanente de l'audition, Dans le cas d'expositions superieures aux limites precitees il est recommande, afin de se premunir contre les expositions aux pressions acoustiquese I evees potentiellement dangeure u ses, aux personnes exposees aux equipements capables de delivrer de telles puissances, tels ce systeme d'amplification en fonctionnement, de proteger l'appareil auditif.

CE SYMBOLE A POUR BUT D'AVERTIR L'UTILISATEUR DE LA PRESENCE DE VOLTAGE DANGEREUX NON-ISOLE A L'INTERIEUR DE CE PRODUIT QUI PEUT ETRE DE PUISSANCE SUFFISAMMENT IMPORTANTE POUR PROVOQUER UN CHOC ELECTRIQUE AUX PERSONNES.

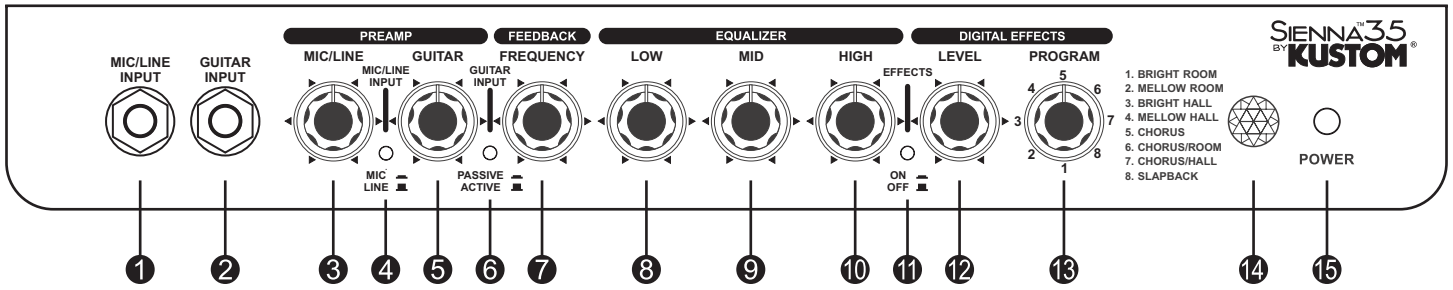
CE SYMBOLE A POUR BUT D'AVERTIR L'UTILISATEUR DE LA PRESENCE D'INSTRUCTIONS D'UTILISATION ET DE MAINTENANCE DANS LES DOCUMENTS FOURNIS AVEC CE PRODUIT.

AFIN DE REDUIRE LES RISQUÉ D'INCENDIE ET DE DECHARGE ELECTRIQUE, NE PAS EXPOSER CET APPAREIL A LA PLUIE OU A L'HUMIDITE.

IMPORTANTES INSTRUCTIONS DE SECURITE

1. Lire avec attention toutes les recommandations et précautions d'emploi avant d'utiliser ce produit.
2. Toutes les recommandations et précautions d'emploi doivent être conservées afin de pouvoir s'y reporter si nécessaire.
3. Lire et comprendre tous les avertissements énumérés dans les précautions d'emploi.
4. Suivre toutes les précautions d'emploi pour utiliser ce produit.
5. Ce produit ne doit pas être utilisé près d'eau, comme par exemple baignoires, éviers, piscine, sous-sol humides ... Etc.
6. Utiliser exclusivement un chiffon sec pour nettoyer ce produit.
7. Ne bloquér aucune ouverture de ventilation. Ne pas placer le produit tout contre un mur ou dans une enceinte fernée, cela gênerait le flux d'air nécessaire au refroidissement.
8. Ne pas placer le produit près de toute source de chaeur telle que radiateurs, arrivées d'air chaud, fourneaux ou autres appareils générant de la chaleur (incluant les amplificateurs producteurs de chaleur) .
9. Ne pas négliger la sécurité que procure un branchement polarisé ou avec raccordement à la terre, Un branchement polarisé comprend deux fiches dont l'une est plus large que l'autre. Un branchement à la terre comprend deux fiches plus une troisième reliée à la terre. Si la fiche secteur fournie ne s'insert pas dans votre prise de courant. consulter un 'électricien afin de remplacer votre prise obsolète.
10. Protéger le cordon d'alimentation de tout écrasement ou pincement, particulièrement au niveau des fiches, des réceptacles utilisés et à l'endroit de sortie de l'appareil. Ne pas casser la fiche de terre du cordon d'alimentation.
11. Utiliser uniquement les accessoires spécifiés par le constructeur.
12. Utiliser uniquement avec le chariot de transport, le support, le trépied, la console ou la table spécifiés par le constructeur ou vendus avec l'appareil. Lors de l'utilisation d'un chariot, bouger avec précaution l'ensemble chariotlappareil afin d'éviter les dommages d'un renversement.
13 Débrancher cet appareil lors d'orages ou s'il n'est pas utilisé pendant une longue période.
14. Des précautions doivent être prises afin qu'aucun objet ne tombe et qu'aucun liquide ne se répande à l'intérieur de l'appareil par les orifics de ventilation ou n'importe quelle autre ouverture.
15. Pour toutes interventions techniques s'adresser à un technicien qualifié.L'intervention technique est nécessaire lorsque l'appareil a été endommagé de n'importe quelle façon, comme par exemple si le cordon secteur ou sa fiche sont détériorés,si du liquide a coulé ou si des objets sont tombés à l'intérieur de l'apparei1,si l'appareil a été exposé à la pluie ou à l'humidité, s'il ne fonctionne pas normalement ou s'il est tombé.
16. ATTENTI0N:Pour réduire le risque d'incendie ou de choc electrique ne pas exposer l'appareil à la pluie ou à l'humidité.

Front Panel



❶ **Mic/Line Input Jack:**
This is a 1/4" 2-conductor input jack for plugging in a Hi-Z microphone or instrument. It is intended for microphones but will accept other instruments as well.

❷ **Guitar Input Jack:**
This is a 1/4" 2-conductor input jack for plugging in your instrument. It is intended for guitar or Hi-Z microphones but will accept other instruments as well.

❸ **Mic/Line Volume Control:**
This control is used to adjust the output volume for the mic/line input. Slowly increase the control to increase the volume. If you are using a high impedance microphone, be careful when increasing the volume. Depending on mic position, it may feedback if the mic is in front of the speaker.

❹ **Mic/Line Input Switch:**
This switch will select a mic or line input level.

❺ **Guitar Volume Control:**
This control is used to adjust the output volume for the guitar input. If you are using a guitar with an on-board preamp, set it's level for a mid position before increasing this control; otherwise distortion may occur.

❻ **Guitar Active/Passive Switch:**
This switch will place a -20dB pad in the circuit, which will allow use of active on-board electronics from pre-amplified guitars. This will help keep the signal extremely clean.

❼ **Frequency Control:**
This control is a tight Hi-Q cut filter notch with an extremely narrow width. It sweeps between 50Hz and 500Hz and "fine tunes" the midrange of the acoustic guitar. This helps eliminate unwanted "ringing" tones. The level is preset to -10dB.

❽ **Low Control:**
This control is the bass control. It is active and set to boost or cut frequencies at 60Hz. This will effect the low frequency signals. Turning it counterclockwise, the low will be rolled off -18dB. Clockwise, it will boost +18dB. Especially good for "cleaning up" preset patches or making thin toned guitars sound fuller.

❾ **Mid Control:**
This control is the midrange control. It is active and set to boost or cut frequencies at 1.5KHz. This will effect the mid-low frequency signals. Turning it counterclockwise, the low-mids will be rolled off -18dB. Clockwise, it will boost +18dB. Especially good for "cleaning up" guitar overtones.

❿ **High Control**:
This control is the high frequency tone control. It is active and set to boost or cut frequencies at 5KHz. This will effect the high frequency signals. Turning it counterclockwise, the highs will be rolled off -18dB. Clockwise, it will boost +18dB. This will add or subtract the high end shimmer and clarity.

⓫ **Effects On/Off Switch:**
This switch engages the digital effects section.

⓬ **Effects Level Control:**
This control adds the digital effects section and mixes it into the main signal buss. Several different effects are available.

⓭ **Program Select Switch:**
This switch will select any of eight different effects.

⓮ **Jewel Light:**
This jewel light lets you know that the amplifier is on.

⓯ **Power Switch:**
This switch turns on and off the AC power to the amp.

Back Panel - (not pictured)

Speaker Out:
This is a 2 conductor 1/4" speaker output jack. This will disconnect the internal speaker and allow an external speaker cabinet to be employed. Rating is 8 ohms.

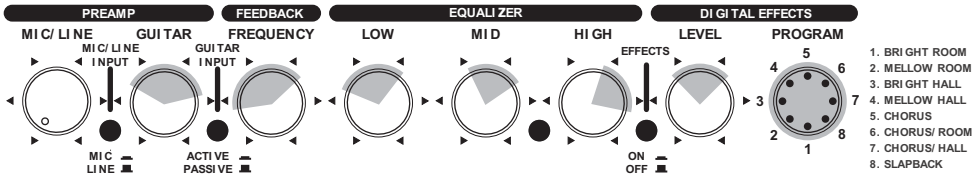
Line Output:
This is a 2 conductor 1/4" line output jack. This will allow an external amplifier or mixing board to be supplied with the signal from this amp. This signal is attenuated and comes from the power amp.

Headphone Jack:
This is a 1/4" 3 conductor jack for plugging headphones. It will sum the signal and put the sound in both ears, thereby creating a pseudo-stereo sound. Volume will be determind by the volume control on the channel you are on. It will disconnect the internal speaker when plugged in. This will allow quiet practicing.

Footswitch:
This is a mono 1/4" jack. Plug a single non LED type footswitch (optional) into this jack to turn the digital effects on and off.

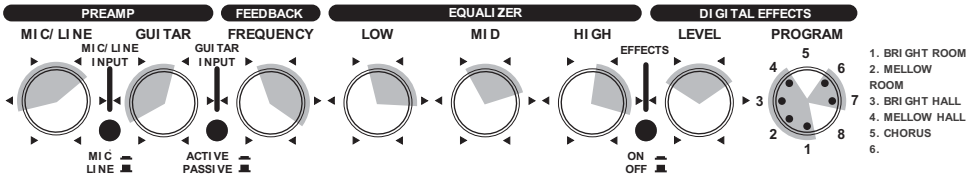
Suggested Settings

(These settings are general starting points. They are designed to get you close to the sound you are looking for. If the control is not shown, then it doesn't apply to this particular sound.)



Standard Single Input Setup - in this setup your acoustic/electric guitar is plugged into input 1. (Remember, if you are using an active guitar or pre-amplified guitar, press the active switch in. We also suggest that you turn it's output level to about mid way up and this will give you a cleaner sound as well as giving you available headroom for leads.) The tone controls follow both inputs. Of course, you can adjust the tone controls to any desired sound but in this setup, we suggest these tone control settings. It will deliver a clear, clean sound that has enough top end clarity to cut through. Add low and low mid for a beefier presence but be careful as this can "muddy up" the sound. Adjust the feedback control to eliminate those unwanted "ringing" frequencies.

Adjust the Digital effects to suit the music or to your taste.



Standard Dual Input Setup - in this setup two inputs are utilized. Guitar is plugged into guitar input jack and a Hi-Z microphone is plugged into mic/line Input. Assuming you are also using a microphone, plug it into the mic/line jack and slowly turn up the mic/line volume control. Balancing the two types of inputs gives you a much more natural acoustic guitar sound. You could also plug in any combination of inputs such as: keyboards, microphones or other guitars.

This can also be a basic mini-PA system. It could be used for plugging in a CD player or cassette decks and a microphone for singing. It can be used for playing over prerecorded tapes with mixing capabilities.

As mentioned earlier, you can adjust the tone controls to any desired sound but in this setup we suggest these tone control settings. Of course it depends on the listening environment. It will deliver a clear, clean sound that has enough top end clarity to let the acoustic sound cut through.

Adjust the Digital effects to suit the music or to your taste.

Sienna35
Specifications

Model	Sienna35	Acoustic guitar amplifier
Output Power	30 Watts	8 Ohms @ 5% THD
Equalizer	4 Band	
Channels	Two	
Impedance	8 Ohms	
Effects	8 Presets	Digital Effects
Amplifier Type	MOS-FET Transistor	
Dimensions	mm/kg	380 (Height) x 460 (Width) x 245 (Depth), 14 kg
	Inches/Pounds	15 (Height) x 18.2 (Width) x 9.7 (Depth), 31 lbs

EC Declaration of Conformity

We: Kustom Musical Amplification Inc.
4940 Delhi Pike
Cincinnati, OH 45238
Tel: 1-513-451-5000 Fax: 1-513-347-2192

Declare that the product

Product name: Kustom

Product model number: Sienna35

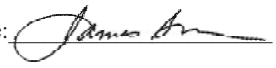
to which this declaration relates is in conformity with the following standards;

EN55013 (A12) : 1995	Limits and methods of measurement of radio disturbance characteristics of broadcast receivers and associated equipment.
EN55020: 1995	Electromagnetic immunity of broadcast receivers and associated equipment.
EN61000-3-2: 1995	Limits for harmonic current emissions (equipment input current $\leq$ 16A per phase).
EN61000-3-3: 1995	Limitation of voltage fluctuations and flicker in low voltage supply systems for equipment with rated currents $\leq$ 16A.
EN55103-1: 1995	Electromagnetic Compatibility - Product family standard for Audio, Video Audio-visual and entertainment Lighting Control Apparatus.
EN60065: 1994	Safety requirements for main operated electronic and related apparatus for household and similar general use.

Following the provisions of EU Council Directive(s): 72/73 EEC and 89/336/EEC.

We the undersigned, hereby declare that the equipment specified above conforms to the aforementioned directive(s).

Name of authorized person: James Brown, Chief Engineer

Signature: 

Date: 22 November 2004

Kustom Amplification Inc.
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KUSTOM

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